

**RUSLE LS Factors****PASTURE**  
**Low Ratio of Rill to Interrill Erosion<sup>1</sup>**

| Slope (%) | Horizontal slope length (ft) |      |      |      |       |       |       |       |       |       |
|-----------|------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|
|           | 25                           | 50   | 75   | 100  | 150   | 200   | 250   | 300   | 400   | 600   |
| 0.2       | 0.05                         | 0.05 | 0.05 | 0.05 | 0.05  | 0.05  | 0.05  | 0.05  | 0.05  | 0.05  |
| 0.5       | 0.08                         | 0.08 | 0.08 | 0.09 | 0.09  | 0.09  | 0.09  | 0.09  | 0.09  | 0.09  |
| 1.0       | 0.13                         | 0.13 | 0.14 | 0.14 | 0.15  | 0.15  | 0.15  | 0.15  | 0.16  | 0.16  |
| 2.0       | 0.21                         | 0.23 | 0.25 | 0.26 | 0.27  | 0.28  | 0.29  | 0.30  | 0.31  | 0.33  |
| 3.0       | 0.29                         | 0.33 | 0.36 | 0.38 | 0.40  | 0.43  | 0.44  | 0.46  | 0.48  | 0.52  |
| 4.0       | 0.36                         | 0.43 | 0.46 | 0.50 | 0.54  | 0.58  | 0.61  | 0.63  | 0.67  | 0.74  |
| 5.0       | 0.44                         | 0.52 | 0.57 | 0.62 | 0.68  | 0.73  | 0.78  | 0.81  | 0.87  | 0.97  |
| 6.0       | 0.50                         | 0.61 | 0.68 | 0.74 | 0.83  | 0.90  | 0.95  | 1.00  | 1.08  | 1.21  |
| 8.0       | 0.64                         | 0.79 | 0.90 | 0.99 | 1.12  | 1.23  | 1.32  | 1.40  | 1.53  | 1.74  |
| 10.0      | 0.81                         | 1.03 | 1.19 | 1.31 | 1.51  | 1.67  | 1.80  | 1.92  | 2.13  | 2.45  |
| 12.0      | 1.01                         | 1.31 | 1.52 | 1.69 | 1.97  | 2.20  | 2.39  | 2.56  | 2.85  | 3.32  |
| 14.0      | 1.20                         | 1.58 | 1.85 | 2.08 | 2.44  | 2.73  | 2.99  | 3.21  | 3.60  | 4.23  |
| 16.0      | 1.38                         | 1.85 | 2.18 | 2.46 | 2.91  | 3.28  | 3.60  | 3.88  | 4.37  | 5.17  |
| 20.0      | 1.74                         | 2.37 | 2.84 | 3.22 | 3.85  | 4.38  | 4.83  | 5.24  | 5.95  | 7.13  |
| 25.0      | 2.17                         | 3.00 | 3.63 | 4.16 | 5.03  | 5.76  | 6.39  | 6.96  | 7.97  | 9.65  |
| 30.0      | 2.57                         | 3.60 | 4.40 | 5.06 | 6.18  | 7.11  | 7.94  | 8.68  | 9.99  | 12.19 |
| 40.0      | 3.30                         | 4.73 | 5.84 | 6.78 | 8.37  | 9.71  | 10.91 | 11.99 | 13.92 | 17.19 |
| 50.0      | 3.95                         | 5.74 | 7.14 | 8.33 | 10.37 | 12.11 | 13.65 | 15.06 | 17.59 | 21.88 |
| 60.0      | 4.52                         | 6.63 | 8.29 | 9.72 | 12.16 | 14.26 | 16.13 | 17.84 | 20.92 | 26.17 |

<sup>1</sup>Such as for rangeland, pasture, and other consolidated soil conditions with cover (applicable to thawing soil where both interrill and rill erosion are significant).

**RUSLE LS Factors**
**CROPLAND**  
**Moderate Ratio of Rill to Interrill Erosion<sup>1</sup>**

| Slope (%) | Horizontal slope length (ft) |      |      |      |      |      |      |      |       |       |
|-----------|------------------------------|------|------|------|------|------|------|------|-------|-------|
|           | 25                           | 50   | 75   | 100  | 150  | 200  | 250  | 300  | 400   | 600   |
| 0.2       | 0.05                         | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05  | 0.06  |
| 0.5       | 0.08                         | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10  | 0.10  |
| 1.0       | 0.12                         | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.17 | 0.18  | 0.19  |
| 2.0       | 0.19                         | 0.22 | 0.25 | 0.27 | 0.29 | 0.31 | 0.33 | 0.35 | 0.37  | 0.41  |
| 3.0       | 0.25                         | 0.32 | 0.36 | 0.39 | 0.44 | 0.48 | 0.52 | 0.55 | 0.60  | 0.68  |
| 4.0       | 0.31                         | 0.40 | 0.47 | 0.52 | 0.60 | 0.67 | 0.72 | 0.77 | 0.86  | 0.99  |
| 5.0       | 0.37                         | 0.49 | 0.58 | 0.65 | 0.76 | 0.85 | 0.93 | 1.01 | 1.13  | 1.33  |
| 6.0       | 0.43                         | 0.58 | 0.69 | 0.78 | 0.93 | 1.05 | 1.16 | 1.25 | 1.42  | 1.69  |
| 8.0       | 0.53                         | 0.74 | 0.91 | 1.04 | 1.26 | 1.45 | 1.62 | 1.77 | 2.03  | 2.47  |
| 10.0      | 0.67                         | 0.97 | 1.19 | 1.38 | 1.71 | 1.98 | 2.22 | 2.44 | 2.84  | 3.50  |
| 12.0      | 0.84                         | 1.23 | 1.53 | 1.79 | 2.23 | 2.61 | 2.95 | 3.26 | 3.81  | 4.75  |
| 14.0      | 1.00                         | 1.48 | 1.86 | 2.19 | 2.76 | 3.25 | 3.69 | 4.09 | 4.82  | 6.07  |
| 16.0      | 1.15                         | 1.73 | 2.20 | 2.60 | 3.30 | 3.90 | 4.45 | 4.95 | 5.86  | 7.43  |
| 20.0      | 1.45                         | 2.22 | 2.85 | 3.40 | 4.36 | 5.21 | 5.97 | 6.68 | 7.97  | 10.23 |
| 25.0      | 1.81                         | 2.82 | 3.65 | 4.39 | 5.69 | 6.83 | 7.88 | 8.86 | 10.65 | 13.80 |

<sup>1</sup>Such as for row-cropped agricultural and other moderately consolidated soil conditions with little-to-moderate cover (not applicable to thawing soil).

**RUSLE LS Factors**
**CONSTRUCTION AND MINING SITES**  
**High Ratio of Rill to Interrill Erosion<sup>1</sup>**

| Slope (%) | Horizontal slope length (ft) |      |      |      |       |       |       |       |       |       |       |
|-----------|------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|           | 15                           | 25   | 50   | 75   | 100   | 150   | 200   | 250   | 300   | 400   | 600   |
| 0.2       | 0.05                         | 0.05 | 0.05 | 0.05 | 0.05  | 0.05  | 0.06  | 0.06  | 0.06  | 0.06  | 0.06  |
| 0.5       | 0.07                         | 0.07 | 0.08 | 0.08 | 0.09  | 0.09  | 0.10  | 0.10  | 0.10  | 0.11  | 0.12  |
| 1.0       | 0.09                         | 0.10 | 0.13 | 0.14 | 0.15  | 0.17  | 0.18  | 0.19  | 0.20  | 0.22  | 0.24  |
| 2.0       | 0.13                         | 0.16 | 0.21 | 0.25 | 0.28  | 0.33  | 0.37  | 0.40  | 0.43  | 0.48  | 0.56  |
| 3.0       | 0.17                         | 0.21 | 0.30 | 0.36 | 0.41  | 0.50  | 0.57  | 0.64  | 0.69  | 0.80  | 0.96  |
| 4.0       | 0.20                         | 0.26 | 0.38 | 0.47 | 0.55  | 0.68  | 0.79  | 0.89  | 0.98  | 1.14  | 1.42  |
| 5.0       | 0.23                         | 0.31 | 0.46 | 0.58 | 0.68  | 0.86  | 1.02  | 1.16  | 1.28  | 1.51  | 1.91  |
| 6.0       | 0.26                         | 0.36 | 0.54 | 0.69 | 0.82  | 1.05  | 1.25  | 1.43  | 1.60  | 1.90  | 2.43  |
| 8.0       | 0.32                         | 0.45 | 0.70 | 0.91 | 1.10  | 1.43  | 1.72  | 1.99  | 2.24  | 2.70  | 3.52  |
| 10.0      | 0.40                         | 0.57 | 0.91 | 1.20 | 1.46  | 1.92  | 2.34  | 2.72  | 3.09  | 3.75  | 4.95  |
| 12.0      | 0.49                         | 0.71 | 1.15 | 1.54 | 1.88  | 2.51  | 3.07  | 3.60  | 4.09  | 5.01  | 6.67  |
| 14.0      | 0.58                         | 0.85 | 1.40 | 1.87 | 2.31  | 3.09  | 3.81  | 4.48  | 5.11  | 6.30  | 8.45  |
| 16.0      | 0.67                         | 0.98 | 1.64 | 2.21 | 2.73  | 3.68  | 4.56  | 5.37  | 6.15  | 7.60  | 10.26 |
| 20.0      | 0.84                         | 1.24 | 2.10 | 2.86 | 3.57  | 4.85  | 6.04  | 7.16  | 8.23  | 10.24 | 13.94 |
| 25.0      | 1.04                         | 1.56 | 2.67 | 3.67 | 4.59  | 6.30  | 7.88  | 9.38  | 10.81 | 13.53 | 18.57 |
| 30.0      | 1.24                         | 1.86 | 3.22 | 4.44 | 5.58  | 7.70  | 9.67  | 11.55 | 13.35 | 16.77 | 23.14 |
| 40.0      | 1.59                         | 2.41 | 4.24 | 5.89 | 7.44  | 10.35 | 13.07 | 15.67 | 18.17 | 22.95 | 31.89 |
| 50.0      | 1.91                         | 2.91 | 5.16 | 7.20 | 9.13  | 12.75 | 16.16 | 19.42 | 22.57 | 28.60 | 39.95 |
| 60.0      | 2.19                         | 3.36 | 5.97 | 8.37 | 10.63 | 14.89 | 18.92 | 22.78 | 26.51 | 33.67 | 47.18 |

<sup>1</sup>Such as for freshly prepared construction and other highly disturbed soil conditions with little or no cover (not applicable to thawing soil).